Data Dictionary for NIST Photovoltaic Array and Weather Station Datasets, v1.0

Last update: July 27, 2017

Part 1. PV Array Datasets

The Saved Data Values from Each Array

Variable Name	Units	Description	One-Minute Average/ Min/Max	Canopy (C)/ Ground (G)/ Roof (R)
AmbTemp_C	С	Outdoor ambient temperature	Average	C/G/R
Battery_A	A	Current to DAS battery, neg. = discharging	Average	C/G/R
Battery_V	V	Charge voltage of DAS battery	Min	C/G/R
ChgSource	-	Charging regulator power source 0 = none 1 = solar terminals 2 = continuous terminals	Min	C/G/R
ChgState	-	State of charging regulator; -1 = regulator fault 0 = no charge 1 = current limited charging 2 = cycle charging 3 = float charging 4 = battery test	Min	C/G/R
CkBatt	-	Status of DAS battery; 0 = normal 1 = check battery	Max	C/G/R
CR1000Temp_C	C	Temperature of the data logger front terminal panel	Average	C/G/R
DoorOpen	-	Door sensor for DAS enclosure; -1 = open, 0 =closed	Min	C/G/R
DPCBFaults	-	Inverter digital power control board fault code	Max	R
GeneralFaults1	-	Inverter general fault code, group 1	Max	R
GeneralFaults2	-	Inverter general fault code, group 2	Max	R
HardwareFaults	-	Inverter hardware fault code	Max	R
InvDriveFault	-	Inverter drive fault code	Max	C/G
InverterFaults	-	Inverter fault code	Max	R
InvEtoday_kWh	kWh	AC total real energy from current day, meas. by inverter	Max	R
InvEtot_kWh	kWh	AC total accumulated real energy, meas. by inverter	Max	C/G/R
InvEtot_kWh	kWh	AC total accumulated real energy, meas. by inverter	Max	R
InvEyesterday_kWh	kWh	AC total real energy from previous day, meas. by inverter	Max	R
InvFreq	Hz	AC frequency, meas. by inverter	Average	C/G/R
InvGndImped_kOhm	kΩ	Inverter ground impedance	Average	R

- A	Inverter grid fault code Line current, phase A, meas. by inverter	Max	C/G
	Line current phase A mass by invertor		
	Line current, phase A, meas. by inverter	Average	C/G/R
A	Average AC line current, meas. by inverter	Average	R
A	Line current, phase B, meas. by inverter	Average	C/G/R
A	Line current, phase C, meas. by inverter	Average	C/G/R
A	Inverter DC input current, meas. by inverter	Average	C/G/R
A	Inverter DC ground current	Average	R
A	AC neutral current, meas. by inverter	Average	R
%	AC line current unbalance, meas. by inverter	Average	R
-	Inverter main fault code	Max	C/G
-	Inverter operating status/state	Average	R
-	Inverter operating status/state	Average	C/G
kW	AC real power, meas. by inverter	Average	C/G/R
kW	Inverter DC input power, meas. by inverter	Average	C/G/R
-	AC power factor, meas. by inverter	Average	R
-	Inverter PV monitoring status code	Max	C/G
-	Inverter system fault code	Max	C/G
-	Inverter system warning code	Max	C/G
-	Inverter temperature fault code	Max	C/G
C	Inverter heatsink temperature	Average	R
С	Ambient temperature inside inverter general enclosure	Average	R
C	Ambient temperature inside inverter enclosure	Average	R
V	Line voltage, phase A, meas. by inverter	Average	C/G/R
kVA	AC apparent power, meas. by inverter	Average	R
V	Average AC line voltage, meas. by inverter	Average	R
kVAR	AC reactive power, meas. by inverter	Average	R
V	Line voltage, phase B, meas. by inverter	Average	C/G/R
V	Line voltage, phase C, meas. by inverter	Average	C/G/R
V	Inverter DC input voltage on load side of DC contactor, meas. by inverter	Average	C/G/R
V	Array DC voltage on DC busbars, measured using voltage divider	Average	C/G/R
-	Inverter voltage fault code	Max	C/G
V	Array DC voltage on line (PV) side of DC contactor, meas. by inverter	Average	C/G/R
	A A A A A % k W C C C C V kVA V kVAR V V V V V	A Line current, phase C, meas. by inverter A Inverter DC input current, meas. by inverter A Inverter DC ground current A AC neutral current, meas. by inverter AC line current unbalance, meas. by inverter Inverter main fault code Inverter operating status/state Inverter operating status/state KW AC real power, meas. by inverter KW Inverter DC input power, meas. by inverter Inverter PV monitoring status code Inverter system fault code Inverter system warning code Inverter temperature fault code Inverter heatsink temperature C Ambient temperature inside inverter general enclosure V Line voltage, phase A, meas. by inverter V Average AC line voltage, meas. by inverter V Line voltage, phase B, meas. by inverter V Line voltage, phase C, meas. by inverter V Line voltage on DC busbars, measured using voltage divider Inverter voltage fault code V Array DC voltage on line (PV) side of DC Inverter voltage fault code	A Line current, phase C, meas. by inverter Average A Inverter DC input current, meas. by inverter Average A AC neutral current, meas. by inverter Average % AC line current unbalance, meas. by inverter - Inverter main fault code Max - Inverter operating status/state Average kW AC real power, meas. by inverter Average kW Inverter DC input power, meas. by inverter Average - AC power factor, meas. by inverter Average - Inverter system fault code Max - Inverter system warning code Max - Inverter temperature fault code Max - Inverter heatsink temperature Average C Ambient temperature inside inverter general enclosure C Ambient temperature inside inverter general enclosure V Line voltage, phase A, meas. by inverter Average V Average AC line voltage, meas. by inverter Average V Line voltage, phase B, meas. by inverter Average V Line voltage, phase B, meas. by inverter Average V Line voltage, phase B, meas. by inverter Average V Line voltage, phase C, meas. by inverter Average V Line voltage, phase C, meas. by inverter Average V Line voltage, phase C, meas. by inverter Average V Line voltage, phase C, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage, phase C, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage, phase D, meas. by inverter Average V Line voltage on DC busbars, measured using voltage divider - Inverter Voltage fault code

InvVUnbal	%	AC line voltage unbalance, meas. by inverter	Average	R
Load_A	A	Current supplied to load (DAS) from charging regulator	Average	C/G/R
NumActiveFaults	-	Inverter number of active faults	Max	R
PwrMtrEdel_kVARh	kVARh	AC total accumulated reactive energy to (used by) inverter, meas. by AC meter	Max	C/G/R
PwrMtrEdel_kWh	kWh	AC total accumulated real energy to (used by) inverter, meas. by AC meter	Max	C/G/R
PwrMtrErec_kVARh	kVARh	AC total accumulated reactive energy from (generated by) inverter, meas. by AC meter	Max	C/G/R
PwrMtrErec_kWh	kWh	AC total accumulated real energy from (generated by) inverter, meas. by AC meter	Max	C/G/R
PwrMtrFreq	Hz	AC frequency, meas. by AC meter	Average	C/G/R
PwrMtrFreqMax	Hz	Max. AC frequency, meas. by AC meter	Max	C/G/R
PwrMtrFreqMin	Hz	Min. AC frequency, meas. by AC meter	Min	C/G/R
PwrMtrIa	A	Line current, phase A, meas. by AC meter	Average	C/G/R
PwrMtrIb	A	Line current, phase B, meas. by AC meter	Average	C/G/R
PwrMtrIc	A	Line current, phase C, meas. by AC meter	Average	C/G/R
PwrMtrP_kVA	kVA	AC apparent power, meas. by AC meter	Average	C/G/R
PwrMtrP_kVAR	kVAR	AC reactive power, meas. by AC meter	Average	C/G/R
PwrMtrP_kW	kW	AC real power, meas. by AC meter	Average	C/G/R
PwrMtrPF	-	AC power factor, meas. by AC meter	Average	C/G/R
PwrMtrPhaseRev	Hz	AC phase reversal, meas. by AC meter	Average	C/G/R
PwrMtrVa	V	Line voltage, phase A, meas. by AC meter	Average	C/G/R
PwrMtrVaTHDMax	%	AC max. total harmonic distortion in phase A, meas. by AC meter	Max	C/G/R
PwrMtrVb	V	Line voltage, phase B, meas. by AC meter	Average	C/G/R
PwrMtrVbTHDMax	%	AC max. total harmonic distortion in phase B, meas. by AC meter	Max	C/G/R
PwrMtrVc	V	Line voltage, phase C, meas. by AC meter	Average	C/G/R
PwrMtrVcTHDMax	%	AC max. total harmonic distortion in phase C, meas. by AC meter	Max	C/G/R
Pyra1_mV	mV	Millivolt output from pyranometer; Canopy: POA, west-tilted Ground: GHI Roof: GHI, southwest	Average	C/G/R
Pyra2_mV	mV	Millivolt output from pyranometer; Canopy: GHI Ground: POA Roof: GHI, southeast	Average	C/G/R

Pyra3_mV	mV	Millivolt output from pyranometer; Canopy: POA, east-tilted Roof: POA, southeast	Average	C/R
Pyra4_mV	mV	Millivolt output from pyranometer; Roof: GHI, northwest	Average	R
Pyra5_mV	mV	Millivolt output from pyranometer; Roof: GHI, northeast	Average	R
Pyra6_mV	mV	Millivolt output from pyranometer; Roof: GHI, center of older horiz. array	Average	R
Pyra7_mV	mV	Millivolt output from pyranometer; Roof: GHI, northwest of older horiz. array	Average	R
Pyra8_mV	mV	Millivolt output from pyranometer; Roof: GHI, northeast of older horiz. array	Average	R
Qloss_Ah	A·h	Charge deficit of DAS battery	Max	C/G/R
RefCell1_Wm2	W/m^2	Irradiance from flat-plate silicon sensor; Canopy: POA, west-tilted Ground: POA Roof: POA, southeast	Average	C/G/R
RefCell2_Wm2	W/m ²	Irradiance from flat-plate silicon sensor; Canopy: POA, east-tilted Roof: GHI, center of older horiz. array, east, cleaned	Average	C/R
RefCell3_Wm2	W/m^2	Irradiance from flat-plate silicon sensor; Roof: GHI, center of older horiz. array, west, uncleaned	Average	R
RTD_C(1)	С	Temperature of module backsheet; Canopy: east-tilted southwest module Ground: center shed, northwest module Roof: south sub-array, south-center module	Average	C/G/R
RTD_C(10)	C	Ambient temperature inside inverter	Average	C/G/
RTD_C(2)	С	Temperature of module backsheet; Canopy: east-tilted southeast module Ground: center shed, center module of west half Roof: center-east sub array, center-east module	Average	C/G/R
RTD_C(3)	С	Temperature of module backsheet; Canopy: west-tilted center-east module Ground: center shed, center-bottom module Roof: center-east sub array, center module, center	Average	C/G/R

RTD_C(4)	С	Temperature of module backsheet; Canopy: east-tilted center-west module, center Ground: center shed, center module, center Roof: center-east sub array, center module, northwest	Average	C/G/R
RTD_C(5)	С	Temperature of module backsheet; Canopy: east-tilted center-west module,	Average	C/G/R
RTD_C(6)	С	Temperature of module backsheet; Canopy: east-tilted center-west module, center-east Ground: center shed, center module, center-east Roof: center-east sub array, center module, center-east	Average	C/G/R
RTD_C(7)	С	Temperature of module backsheet; Canopy: east-tilted center-west module, north-center Ground: center shed, center module, north- center Roof: northwest sub-array, northwest module	Average	C/G/R
RTD_C(8)	С	Temperature of module backsheet; Canopy: east-tilted center-east module Ground: center shed, center-top module	Average	C/G/
RTD_C(9)	C	Temperature of module backsheet; Canopy: east-tilted northwest module Ground: north shed, center module	Average	C/G/
SEWSAmbientTemp_C	C	Outdoor ambient temperature from integrator's sensor	Average	C/G/R
SEWSModuleTemp_C	С	Module temperature from integrator's sensor	Average	C/G/R
SEWSPOAIrrad_Wm2	W/m ²	POA irradiance from integrator's domed diffused silicon-cell pyranometer	Average	C/G/R
ShuntCurrent_A(1)	A	Output circuit current from combiner box 1	Average	C/G/R
ShuntCurrent_A(2)	A	Output circuit current from combiner box 2	Average	C/G/R
ShuntCurrent_A(3)	A	Output circuit current from combiner box 3	Average	C/G/R
ShuntCurrent_A(4)	A	Output circuit current from combiner box 4	Average	C/G/R
ShuntCurrent_A(5)	A	Output circuit current from combiner box 5	Average	C/G
ShuntCurrent_A(6)	A	Output circuit current from combiner box 6	Average	C/G
ShuntCurrent_A(7)	A	Output circuit current from combiner box 7	Average	C/G

ShuntEtot_kWh_Avg(1)	kWh	Output circuit total accumulated energy from combiner box 1, meas. using shunts and voltage divider*	-	C/G/R
ShuntEtot_kWh_Avg(2)	kWh	Output circuit total accumulated energy from combiner box 2, meas. using shunts and voltage divider*	-	C/G/R
ShuntEtot_kWh_Avg(3)	kWh	Output circuit total accumulated energy from combiner box 3, meas. using shunts and voltage divider*	-	C/G/R
ShuntEtot_kWh_Avg(4)	kWh	Output circuit total accumulated energy from combiner box 4, meas. using shunts and voltage divider*	-	C/G/R
ShuntEtot_kWh_Avg(5)	kWh	Output circuit total accumulated energy from combiner box 5, meas. using shunts and voltage divider*	-	C/G
ShuntEtot_kWh_Avg(6)	kWh	Output circuit total accumulated energy from combiner box 6, meas. using shunts and voltage divider*	-	C/G
ShuntEtot_kWh_Avg(7)	kWh	Output circuit total accumulated energy from combiner box 7, meas. using shunts and voltage divider*	-	C/G
ShuntPDC_kW_Avg(1)	kW	Output circuit power from combiner box 1, meas. using shunts and voltage divider*	-	C/G/R
ShuntPDC_kW_Avg(2)	kW	Output circuit power from combiner box 2, meas. using shunts and voltage divider*	-	C/G/R
ShuntPDC_kW_Avg(3)	kW	Output circuit power from combiner box 3, meas. using shunts and voltage divider*	-	C/G/R
ShuntPDC_kW_Avg(4)	kW	Output circuit power from combiner box 4, meas. using shunts and voltage divider*	-	C/G/R
ShuntPDC_kW_Avg(5)	kW	Output circuit power from combiner box 5, meas. using shunts and voltage divider*	-	C/G
ShuntPDC_kW_Avg(6)	kW	Output circuit power from combiner box 6, meas. using shunts and voltage divider*	-	C/G
ShuntPDC_kW_Avg(7)	kW	Output circuit power from combiner box 7, meas. using shunts and voltage divider*	-	C/G
TemperatureFaults	-	Inverter temperature fault code	Max	R
TIMESTAMP	LST	Date and time	Max	C/G/R
Warnings	-	Inverter system warning code	Max	R
WindDir_deg	0	Wind direction, clockwise from north	-	C/G/R
WindDirAve_deg	0	Unit vector mean wind direction*	-	C/G/R
WindDirStdDev_deg	0	Standard deviation of the wind direction*	-	C/G/R

WindHeatStateID	-	1 = heating disabled 2 = enabled, not heating 3 = 50 % heating 4 = 100 % heating 5 = error	Average	C/G/R
WindRef_V	V	Internal reference voltage in wind sensor	Min	C/G/R
WindSpeed_ms	m/s	Wind speed	Max	C/G/R
WindSpeedAve_ms	m/s	Mean horizontal wind speed*	-	C/G/R
WindValid	-	Wind sensor data validity -1 = wind data is valid 0 = wind data is invalid	Average	C/G/R

Note: All measurements are sampled every 1 s except the RTDs, which are sampled every 10 seconds. All measurements are saved every 1 s, except those marked with a "*".

^{*} Calculated from saved 1 s samples; only the 1 min aggregate data are saved

Part 2. Weather Station Dataset

The Saved Data Values from the Weather Station

Variable Name	Units	Description	One-Minute Aggregation	Top (T)/ Lower (L) Data Logger
AirMass	-	Absolute air mass	Average	T/L
AirPres_kPa	kPa	Atmospheric pressure	Average	T
AirTemp_C	С	Outdoor ambient temperature 5.59 m above roof	Average	Т
AM25TRefTemp_C	C	Thermocouple UTR reference temperature	Average	L
AmbTemp_C	С	Outdoor ambient temperature 1.07 m above roof	Average	L
AmbVent_rpm	rev/min	Mean ambient temperature ventilator fan speed	Average*	L
Battery_A	A	Current to UPS battery, neg. = discharging	Average	T/L
Battery_V	V	Charge voltage of UPS battery	Min	T/L
ChgSource	-	Charging regulator power source 0 = none 1 = solar terminals 2 = continuous terminals	Min	T/L
ChgState	-	State of charging regulator; -1 = regulator fault 0 = no charge 1 = current limited charging 2 = cycle charging 3 = float charging 4 = battery test	Min	T/L
CkBatt	-	Status of UPS battery; 0 = normal 1 = check battery	Max	T/L
CR1000Temp_C	С	Temperature of the data logger front terminal panel	Average	T/L
Declination_deg	0	Earth's declination angle	Average	T/L
DoorOpen	-	Door sensor for DAS enclosure; -1 = open, 0 =closed	Min	T
Hail_hitssqrcm	hits/cm ²	Hail count	Sum	T
Load_A	A	Current supplied to load (UPS) from charging regulator	Average	T/L
PwrStripState	-	State of remote power strip, bit field	Min	L
Pyra1_mV	mV	Millivolt output from thermopile pyranometer, south table position	Average	T
Pyra1temp_C	C	Thermopile pyranometer case temperature, south table position	Average	Т

Pyra2_mV	mV	Millivolt output from thermopile pyranometer, north table position	Average	L
Pyra2temp_C	С	Thermopile pyranometer case temperature, north table position	Average	L
Pyrad1_mV	mV	Millivolt output from diffuse-measuring pyranometer, east tracker position (when pointing south)	Average	T
Pyrad2_mV	mV	Millivolt output from diffuse-measuring pyranometer, west tracker position (when pointing south)	Average	L
PyraS1_Wm2	W/m^2	Millivolt output from domed-diffused silicon-cell pyranometer	Average	L
Pyrg1_mV	mV	Millivolt output from pyrgeometer	Average	T
Pyrg1temp_C	C	Pyrgeometer case temperature	Average	T
Pyrh1_mV	mV	Millivolt output from pyrheliometer, east tracker position (when pointing south)	Average	Т
Pyrh1temp_C	С	Pyrheliometer case temperature, east tracker position (when pointing south)	Average	T
Pyrh2_mV	mV	Millivolt output from pyrheliometer, west tracker position (when pointing south)	Average	L
Qloss_Ah	A·h	Charge deficit of UPS battery	Max	T/L
Rain_mm	mm	Rain accumulation, piezoelectric sensor	Sum	T
RainTB_mm	mm	Rain and precipitation liquid equivalent accumulation, tipping bucket gauge	Sum	T
RefCell1_Wm2	W/m ²	Irradiance from flat-plate silicon sensor, 0° tilt	Average	Т
RefCell2_Wm2	W/m^2	Irradiance from flat-plate silicon sensor, 10° tilt, 180° azimuth CW from north	Average	Т
RefCell3_Wm2	W/m ²	Irradiance from flat-plate silicon sensor, 5° tilt, 270° azimuth CW from north	Average	Т
RefCell4_Wm2	W/m^2	Irradiance from flat-plate silicon sensor, 5° tilt, 90° azimuth CW from north	Average	T
RefCell5_Wm2	W/m ²	Irradiance from flat-plate silicon sensor, 20° tilt, 180° azimuth CW from north	Average	Т
RefCell6_Wm2	W/m^2	Irradiance from flat-plate silicon sensor, 18.4° tilt, 180° azimuth CW from north	Average	Т
RelayState	-	State of latching relay, bit field	Min	T/L
RelHumid	%	Relative humidity	Average	T
RTD_C(1)	С	Temperature of module backsheet: 10° tilted module, center	Average	L
RTD_C(10)	С	Temperature of module backsheet: 5° east tilted module, southwest	Average	L
RTD_C(11)	С	Temperature of module backsheet: 5° east tilted module, center-east	Average	L
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RTD_C(12)	С	Temperature of module backsheet: 5° east tilted module, north-center	Average	L
RTD_C(13)	С	Temperature of module backsheet: 20° tilted module, center	Average	L
RTD_C(14)	C	Temperature of module backsheet: 20° tilted module, northeast	Average	L
RTD_C(15)	C	Temperature of module backsheet: 20° tilted module, center-west	Average	L
RTD_C(16)	C	Temperature of module backsheet: 20° tilted module, south-center	Average	L
RTD_C(2)	C	Temperature of module backsheet: 10° tilted module, northwest	Average	L
RTD_C(3)	C	Temperature of module backsheet: 10° tilted module, south-center	Average	L
RTD_C(4)	C	Temperature of module backsheet: 10° tilted module, center-east	Average	L
RTD_C(5)	С	Temperature of module backsheet: 5° west tilted module, center	Average	L
RTD_C(6)	C	Temperature of module backsheet: 5° west tilted module, northeast	Average	L
RTD_C(7)	С	Temperature of module backsheet: 5° west tilted module, center-west	Average	L
RTD_C(8)	C	Temperature of module backsheet: 5° west tilted module, south-center	Average	L
RTD_C(9)	C	Temperature of module backsheet: 5° east tilted module, center	Average	L
SixInOneHeatStateID	-	Weather transmitter heating state: 1 = heating disabled 2 = enabled, not heating 3 = 50 % heating 4 = 100 % heating 5 = error	Average	T
SixInOneRef_V	V	Internal reference voltage in weather transmitter	Min	T
SnowDepth_cm	cm	Snow depth	Average	L
SolarAzFromSouth_deg	0	Solar azimuth, CW from south	Average	T/L
SolarTime_hr	h	Solar time	Max, Median	T/L
SolarZenith_deg	0	Solar zenith angle	Average	T/L
TC_C(1)	C	Temperature of module backsheet: 0° tilted module, center	Average	L
TC_C(2)	С	Temperature of module backsheet: 0° tilted module, southeast	Average	L
TC_C(3)	C	Temperature of module backsheet: 0° tilted module, north-center	Average	L

TC_C(4)	C	Temperature of module backsheet: 0° tilted module, between center and southeast	Average	L
TC_C(5)	С	Temperature of module backsheet: 18.4° tilted module, center	Average	L
TC_C(6)	C	Temperature of module backsheet: 18.4° tilted module, northwest	Average	L
TC_C(7)	C	Temperature of module backsheet: 18.4° tilted module, south-center	Average	L
TC_C(8)	C	Temperature of module backsheet: 18.4° tilted module, center-east	Average	L
TIMESTAMP	LST	Date and time	Max	T/L
TrackerFlags	-	Tracker status, bit field	Max	L
TrackerState	-	Tracker state	Min	L
UVA_mV	mV	Millivolt output from UV-A radiometer converter box	Average	Т
UVB_mV	mV	Millivolt output from UV-B radiometer converter box	Average	T
UVBtemp_C	C	UV-B radiometer optical system temperature	Average	T
UVT_mV	mV	Millivolt output from UV total radiometer	Average	L
Vent2_rpm	rev/min	Mean GHI ventilator fan speed, south table position	Average*	T
Vent4_rpm	rev/min	Mean GHI ventilator fan speed, north table position	Average*	L
WindDir_deg	O	Wind direction 5.72 m above roof, clockwise from north	-	Т
WindDir1_deg	0	Wind direction 2.51 m above roof, clockwise from north	-	L
WindDir1Ave_deg	0	Unit vector mean wind direction 2.51 m above roof	Average*	L
WindDirAve_deg	0	Unit vector mean wind direction 5.72 m above roof	Average*	T
WindDirStdDev_deg	0	Standard deviation of the wind direction; Top: 5.72 m above roof Lower: 2.51 m above roof	Std. Dev.*	T/L
WindSpeed_ms	m/s	Wind speed 5.72 m above roof	Max	Т
WindSpeed1_ms	m/s	Wind speed 2.51 m above roof	Max	L
WindSpeed1Ave_ms	m/s	Mean horizontal wind speed 2.51 m above roof	Average*	L
WindSpeedAve_ms	m/s	Mean horizontal wind speed 5.72 m above roof	Average*	Т
				-

Wind sensor 5.72 m above roof data validity -1 = wind data is valid 0 = wind data is invalid	Average	T	
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Note: All measurements are sampled every 1 s except the RTDs and thermocouples, which are sampled every 10 s. All measurements are saved every 1 s, except those marked with a "*".

^{*} Calculated from saved 1 s samples; only the 1 min aggregate data are saved